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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/949,525	10/14/1997	MICHAEL J. WIENER	ENT970827-1	8206

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EXAMINER

MEISLAHN, DOUGLAS J

ART UNIT PAPER NUMBER

2132

DATE MAILED: 08/08/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

08/949,525

Applicant(s)

WIENER ET AL.

Examiner

Douglas J. Meislahn

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 25 April 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

**DETAILED ACTION**

***Response to Amendment***

1. This action is in response to the amendment filed 25 April 2002 that amended claims 1, 14, and 21.

***Response to Arguments***

2. Applicant's arguments filed 25 April 2002 have been fully considered but they are not persuasive. Applicant's arguments are not applicable to claim 9.
3. Applicant is uncertain as to the meaning of the examiner's statement that Lewis does not say that there are certificates with expiry data that is user selectable. Applicant's claims clearly show certificates that include selectable expiry data, which is provided to clients, who can be thought of as users. The totality of this element of the claim is not present in Lewis.
4. Applicant's arguments incorporate recent amendments to the claims when saying that Lewis does not show providing, by a multi-client manager and not a client, selectable digital signature expiry data for a plurality of clients, where keys are not shared between users. Lewis does show providing, by a multi-client manager and not a client, updated public-key pairs. These key pairs anticipate associated certificates which would be provided by the multi-client manager or some other similarly trusted agent. As such, expiry data is anticipated as being provided by an entity that reads on multi-client manager. Lewis does not show public-key pairs that are shared between users. Sharing public-key pairs amongst users seriously hampers the keys' effectiveness, to the point a person of ordinary skill in the art would assume that any

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public-key cryptosystem would be using unique key pairs for each entity on the system.

As such, Lewis shows the above features, except for selectable expiry data.

Ellison teaches the advantage of making expiry data selectable and a reason for doing so. As such, the combination of Lewis and Ellison renders obvious providing selectable expiry data by a multi-client manager. Lewis has already taught updating keys on a per-client basis. When combined with Ellison's teaching of selecting expiration periods based on risk management, it would be obvious to a person of ordinary skill in the art to make the expiry data selectable on a per-client based. The step of storing the expiry data is inherent. Associating the expiry data with a key pair is anticipated by selecting the expiry data. Although not present in the independent claims, the association would most probably the concatenation of the public key, the expiry data, and other information, and the result's signing by the multi-client manager.

Ellison's discussion of selectable time frames covers applicant's arguments with respect to claims 5, 19, and 25.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-4, 6, 8-18, 20-24, and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis (5761306) in view of Ellison (Generalized Certificates).

Lewis shows a public key replacement system. Figure 2 shows that both private and public keys are updated. Lewis' system causes a key switch. Lewis does not say that there are certificates with expiry data that is user selectable. Ellison talks throughout his disclosure about certificates, which are used to authenticate public keys. Certification authorities issue these certificates. On page five, Ellison says that he believes that there is a problem with CRLs. He believes, as he says in the paragraph bridging pages five and six, certificates should each include a validity field. He goes on to say that "[i]t is up to you to decide how long you're willing to have an invalid certificate out in the world – and to define the validity period accordingly. This is a matter of normal risk management." An e-mail message that begins on page seven and ends on page 9 of Ellison's article outlines the benefits of eliminating CRLs. Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to give users the ability to define the validity period for certificates, as taught by Ellison, in the public key distribution system of Lewis.

Lewis anticipates additional material in claim 9. Ellison shows claim 2. Claim 3 is met by Lewis in lines 64-65 of column 7. Claim 6 is inherent to Ellison in that an interface to select validity periods is required.

7. Claims 5, 19, 25, and 27-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis and Ellison as applied to claims 1, 14, and 21 above, and further in view of applicant's admitted prior art.

Lewis and Ellison teach the selection of key validity periods on a per client basis. They do not specify a time frame in which a client can request key updates. In lines 14

through 19 of page 2, applicant discusses a conventional public key system in which keys have a fixed default period that is "... generally a fixed percentage or a total key lifetime ...". Official notice is taken that fixed length renewal periods are old and well known. Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to set key update periods that are based on a fixed number of days and a percentage of a key's lifetime. This method provides flexibility by giving clients who have keys that have either extremely long or extremely short lifetimes two options as to when to update their keys.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis and Ellison as applied to claim 1 above.

Lewis and Ellison teach the selection of key validity periods on a per client basis. In their system, keys are created by a user and then sent to a certification authority for a certificate. In another implementation of public-key cryptosystems, the certification authority both generates and verifies the public/private key pair, sometimes on request. The previously mentioned RSA key marketing method exemplifies this. Therefore it would have been obvious to a person of ordinary skill in the art at the time the invention was made to apply the teachings of Lewis and particularly Ellison to the well-known public key cryptosystem where a certification authority produces the key pair.

### ***Conclusion***

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas J. Meislahn whose telephone number is (703) 305-1338. The examiner can normally be reached on between 9 AM and 6 PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barrón can be reached on (703) 305-1830. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

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DJM

August 7, 2002

Douglas J. Meislahn  
Examiner  
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**SUPERVISORY PATENT EXAMINER**  
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